

## Sequence alignment: Beta amylase form US 09/744825 and betaamylase from sweet potato (Yoshida, Acc: D12882.1)

Only coding sequences are compared.

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Alignment **bataamy.msf** am 30.4.2003 → Output v. **bataamy** kann markiert werden und mit Copy-Paste in Word 2000 (Nicks Compi) hineingefügt werden.

ClustalW 1.8 Parameters → fast pairwise alignment followed by multiple alignment	MView Parameters (output)
ktuple=2 topdiags=4 pairgap=5 gapopen=10 gapext=5 maxdiv=40                      dnatrix: IUB transitions: unweighted	
ruler: on coloring: identity threshold: 80 width: 50 consensus: off consensus coloring: identity consensus threshold: 100                      consensus ignore: singleton consensus gaps: on consensus ref: 1 colormap: D_plain colorfile: -colorfile D_plain.map cons. colormap: -con_colormap D_plain	

Identities computed with respect to: (1) US09744852

Colored by: identity + property



US09744852	100.0%	351	4 400
Yoshida	54.9%	TGATGCCGTTGGATAGTGTGAAAATGGATCATACTGT --- GAATAGGAAG TGCTCCCGTTGGGAGTGTGAATGCCGCAATGTTTTCGGACAAAGAG	
US09744852	100.0%	401	450
Yoshida	54.9%	AAGGCGATGAATGCGAGTTTACAGGCGTTGAAGAGCGCCGGTGTG - SAAG AAGGTG -- GAAGATGAGCTGA - AGCAGCTCAA - AGCAGGGGGGTGCGATG	
US09744852	100.0%	451	5 500
Yoshida	54.9%	GGATTATGATGGATGTGTGGTGGGGATTGGTGGAGAGAGATGCCCCGGG GGGTGATGGTGGATGTGTGGTGGGGATCATCAGGCCAAAGGCCAAAG	
US09744852	100.0%	501	550
Yoshida	54.9%	GAGTATAATTGGGGCGGTATGCTGAGCTTATGGAAATGGCGAAAAAC CAGTACGATTGCTCTCTTACAGGAGTTATTCAGTTGGTTAAGAAATG	
US09744852	100.0%	551	6 600
Yoshida	54.9%	TGGACTCAAAGTTCAAGCTGTGATGTCTTCCATCAATGTGGTGGAAACG TGGCTCAAATCAGGCGATCATGTCTTTTCACAATGCGGCGCAATG	
US09744852	100.0%	601	650
Yoshida	54.9%	TCGGTGATTCCCTGCACGATCCCTCTTCCAAGGTGGGTGTTGAGGAGATG TCGGCGACGCCGTCTTCATCCCATCCCTCAATGGATTCTCCAAATCGGC	
US09744852	100.0%	651	7 700
Yoshida	54.9%	GAGAAGGATCCAGATCTTGATACACAGATCAGTGGGGAAGGAGGAATTT GACAAAAACCCGATATCTTCTACACCAACCGGCCGGTAACCGAAACCA	
US09744852	100.0%	701	750
Yoshida	54.9%	TGAATATGTATCGCTTGGTTGCGATACACTTCCAGTTCTTAAAGGAAGG GGAGTACCTCTCTCTCGGCGTGGACAATCAAGCTCTCTTCCAGGGCCGCA	
US09744852	100.0%	751	8 800
Yoshida	54.9%	CTCCTGTCCA - ATGCTATTCTGATTTATGAGAGGGTTTAGAGATAGATT CCGCTCTCGAATG - TACAGGGATTTCATGAAAGTTTACGGATA - ATA	
US09744852	100.0%	801	850
Yoshida	54.9%	TGAGAATCTCCT --- AGG - TGACACCATGTGGAAATCAAGTCGGGATG TGGCAGACTTTTGAAGGCTGGAGATATTGTAGACATTCAAGTAGGGTGT	
US09744852	100.0%	851	9 900
Yoshida	54.9%	GGTCCAGCTGGAGAGCTCCGTATCCATCCTATCCGAAAAAGATGGAGT GGGGCTGCCGGAGAGCTTCGGTATCCCTCCTATCCCGAGA --- CTCAAGG	
US09744852	100.0%	901	950
Yoshida	54.9%	ATGGAATTCCTGGAATGGTGCTTTTTCAGTGTATGACAAGTACATGA ATGGGTTTTCCTCGCATCGGAGATTTTCAGTGTATGACAAGTACATG	
US09744852	100.0%	951	0 1000
Yoshida	54.9%	TCAGTAG - CTTACAGGGTGCAGCAGAAGCTTT - TGCTAAGCCTGAATGGC TG - ECAGACTGGAAGGAGGCTGT - GAAGCAAGCTGGGAATGCAGA - TTGG	
US09744852	100.0%	1001	1050
Yoshida	54.9%	GACACACCGGTCCAACCGATGCTGGTCAGTACAACAATTGGCCAGAAGAT GAGATGCCGGG - AAAAGGCACCGGACTTACAACGACACGCCGACAAAG	
US09744852	100.0%	1051	1 1100
Yoshida	54.9%	ACCAACTTTTCAAGAAGGAAGGTGGTGGATGGGATAGTCAATATGGGGA ACGGAATTTCTTC - CCCCAAACGGGACTTACAAGACGG --- ATATGGGCA	
US09744852	100.0%	1101	1 1150
Yoshida	54.9%	GTTCTTCTCACTTGGTATTCTGAGATGCTTTTGAACCATGGTGAAGG AGTTTCTCTGACTGGTACTCCAACAAGCTCATCTCCATGGCGATCAA	
US09744852	100.0%	1151	2 1200
Yoshida	54.9%	ATACTGCAATCAGCCAAGGCGATATTCAGGACAAAGGTGTTAAGATTTG GTCTCTGAAGAAGCCAAACAAGTTTTCGTTGGCTCCCGCTCAACATAGC	
		1201	1250

US09744852	100.0%	AGTTAAGATTGCAGGTATTCAGTGGCACTATGGAACAAGGTC--CCATGC	
Yoshida	54.9%	TCCCAAGTTTCTGGAATTCAGTGGTGA--CAACCATGTGAGCCATGC	
		1251	3 1300
US09744852	100.0%	CCCTGAGCTGACCGCTGGATACTACAACAG--CCGTAACCGAGATGGTTA	
Yoshida	54.9%	GGCGAGCTCACCGC CGATTCTACAA TGTGGCGGGAA--GAGACGGTTA	
		1301	: 1350
US09744852	100.0%	CCTTCCCATCGCCCAAATGCTTGCCCGCCACGGTGCAGTTTTCAACTTCA	
Yoshida	54.9%	TCCGCGTATTGCCAGGATGCTGGCAAGGCAGCATGCCACTCTGAATTTC	
		1351	4 1400
US09744852	100.0%	CATGTGTTGAGATGCCGTGACCACGAGCAGCCACAAGATGCACTATGTGCA	
Yoshida	54.9%	CTTGCTTGTGAGATGAGAGACTCCGAACAGCCTGCCGAGGCAAGAGTGCT	
		1401	: 1450
US09744852	100.0%	CCTGAGAAGTTGGTTAGCAAGTGGCTTTAGCAACTCA--GGAAGCTCAAG	
Yoshida	54.9%	CCTCAAGAACTCGTTCAACAGGTG--TTGAGCAGCGGATGGAAGAGGTAT	
		1451	5 1500
US09744852	100.0%	TTCCACTTG--CTGGGGAGAATGCATTGCCACGATACGATGATTATGCACA	
Yoshida	54.9%	ATCGATGTGGCAGGTGAGAATGCATGCCAAGATATGATGCCACGGCAT	
		1501	: 1550
US09744852	100.0%	TGAACAGATCCTTCA--AGCATCCT--CATTGAATATCAACGATCAATCAG	
Yoshida	54.9%	CAACCAAATACTTCTCAACGTCAGGCCAAACGGCGTCAACCTTAACGGCC	
		1551	6 1600
US09744852	100.0%	GTGATAGAG----AGATGTGCGCGTTTACATATTTGAGGATGAATCCTGA	
Yoshida	54.9%	CTCCCA--AGCTCAAGATGTCCGGCTTGACATATCTCCGTTTGTTCGGACGA	
		1601	: 1650
US09744852	100.0%	CCTATTCCATCCTGATAACTGGAGGCGATTCGTTGCCTTCGTGAAG/AAA	
Yoshida	54.9%	TCTGTTACAGAGAGCAACTTCGAATCTTCAAGAAATTCGTCAAGAAGA	
		1651	7 1700
US09744852	100.0%	TGAAAGAAGGAAAAGACGCAACA--AATGCCGGGAA--CAAGTAGAGAGG	
Yoshida	54.9%	TGCACGCTGATCTGGATCCATCCCGAACGCTATCTCTCCGCGCGTCTTG	
		1701	: 1750
US09744852	100.0%	GAGGCAGAGCATT--TCGTGCAT----ATAACTCAGCCGTTAGT--GCAAGA	
Yoshida	54.9%	GAG--AGATCAAACTCCGCGATCACCATTGATGCACTGATGCAAGGCCACC	
		1751	8 1800
US09744852	100.0%	AGCTGCAGCTGCCCT--CATGCACTAA-----	
Yoshida	54.9%	AAAGGTAGCAGGCCATTC--CATGGTATGACGTCACAGACATGCCGGTGGA	
		1801	] 1822
US09744852	100.0%	TGGCTCAAACCCGTTTGATTGA	
Yoshida	54.9%		

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